



1998 Toxics Release Inventory

MISSOURI

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	52,561,552	79,872,551	132,434,103
Air Emissions	30,206,648	13,266,029	43,472,677
Surface Water Discharges	2,528,218	159,888	2,688,106
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	75,750	17,494	93,244
Other On-site Land Releases	19,750,936	66,429,140	86,180,076
Off-site Releases (Transfers Off-site to Disposal)*	4,405,048	5,883	4,410,931
Total On- and Off-site Releases	56,966,600	79,878,434	136,845,034
Recycled On-site	225,246,952	667,012	225,913,964
Recycled Off-site	55,448,281	1,253,629	56,701,910
Energy Recovery On-site	97,649,194	0	97,649,194
Energy Recovery Off-site	11,436,473	305,991	11,742,464
Treated On-site	63,212,942	7,883,000	71,095,942
Treated Off-site**	12,486,677	75,461	12,562,138
Quantity Released On- and Off-site***	56,525,357	79,376,991	135,902,348
Total Production-related Waste Managed	522,005,876	89,562,084	611,567,960
Total Non-production-related Waste Managed	64,217	39,894	104,111

Transfers Off-site for Further Waste Management/Disposal

Recycling	57,520,685	597,102	58,117,787
Energy Recovery	11,373,630	317,934	11,691,564
Treatment	8,599,615	99,811	8,699,426
Publicly Owned Treatment Works (POTWs)	4,185,829	3,914	4,189,743
Metals and Metal Compounds*	130,507	5	130,512
Non-metal TRI Chemicals**	4,055,322	3,909	4,059,231
Other Off-site Transfers****	18,160	0	18,160
Off-site Transfers to Disposal (not including metals to POTWs)	4,353,555	6,441	4,359,996
Total Transfers Off-site for Further Waste Management/Disposal	86,051,474	1,025,202	87,076,676

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

****Transfers reported without a valid waste management code.

For More Information . . .

State Contact:

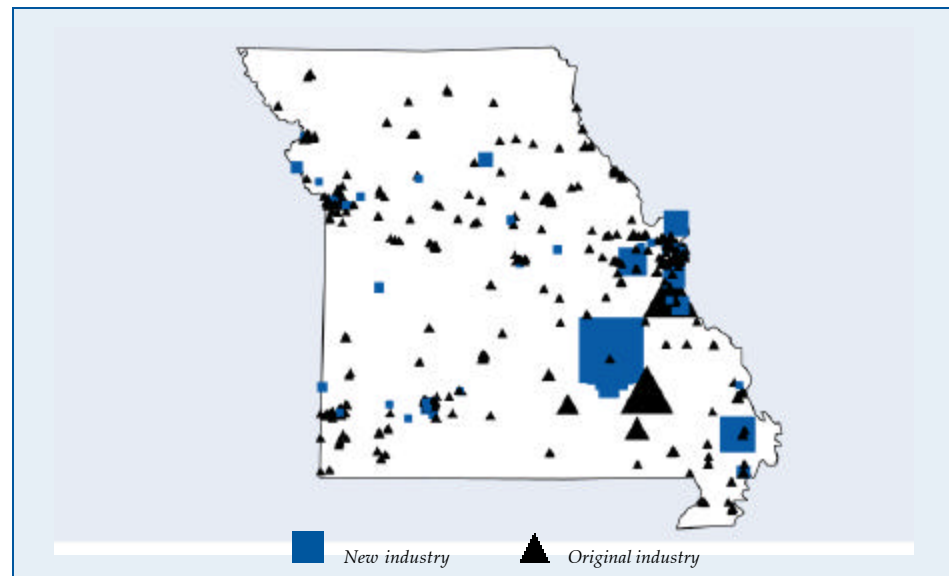
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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Missouri. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	5,438,559
Square Miles	68,898
Total Facilities	624
Total Forms	2,229
Form As	408

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	15	8	16
Pounds	56,966,600	79,878,434	136,845,034
National Rank for Total On-site Releases**			
Rank	15	7	14
Pounds	52,561,552	79,872,551	132,434,103
National Rank for Total Releases within State***			
Rank	15	8	16
Pounds	56,368,733	80,258,587	136,627,320
National Rank for Production-related Waste Managed			
Rank	17	16	18
Pounds	522,005,876	89,562,084	611,567,960

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



1998 Toxics Release Inventory

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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	116,035	1,086	0	8,157,440	574,616	8,849,177	4,305	280,027	294,589
67-56-1	Methanol	8,672,211	10,134	0	5	641	8,682,991	1,534	0	641
7440-66-6	Zinc (fume or dust)	7,907	8	0	6,105,478	5,555	6,118,948	7,010	255	5,300
1330-20-7	Xylene (mixed isomers)	3,627,493	5	0	0	55,338	3,682,836	1,724	11,199	44,139
7439-92-1	Lead	71,650	300	0	2,751,135	13,208	2,836,293	623	10,434	2,774
—	Lead compounds	240,592	1,096	0	1,474,753	705,622	2,422,063	60,384	660,485	45,137
—	Nitrate compounds	607	2,010,526	0	899	48,002	2,060,034	0	0	48,002
—	Glycol ethers	1,877,703	5	0	5,400	37,648	1,920,756	755	4,285	33,363
7664-41-7	Ammonia	1,153,023	493,453	0	269,926	2,289	1,918,691	0	2,254	35
108-88-3	Toluene	1,651,142	32	0	11	2,763	1,653,948	2,266	1,000	1,763

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal * Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Lead compounds	135,997	7,805	0	25,647,940	563	25,792,305	1,337	0	563
—	Zinc compounds	58,071	29,850	0	24,985,867	318	25,074,106	4,480	15	303
—	Barium compounds	168,339	104,433	0	10,102,745	5	10,375,522	0	5	0
7647-01-0	Hydrochloric acid	9,098,595	0	0	0	0	9,098,595	0	0	0
—	Copper compounds	6,514	4,718	0	4,608,844	10	4,620,086	121	10	0
7664-39-3	Hydrogen fluoride	1,989,699	0	0	0	0	1,989,699	9	0	0
7664-93-9	Sulfuric acid	1,629,482	0	0	0	0	1,629,482	0	0	0
7440-39-3	Barium	14,819	0	0	396,811	0	411,630	91,125	0	0
—	Manganese compounds	7,240	5,030	0	329,000	10	341,280	31	10	0
—	Nickel compounds	3,197	4,396	0	151,702	0	159,295	5	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Doe Run Co. Herculaneum Smelter, Herculaneum, Jefferson	271,716	247	0	0	0	9,567,146	9,839,109	997	35,432
Doe Run Co. Glover Smelter, Annapolis, Iron	43,533	27	0	0	0	9,306,607	9,350,167	0	328
Royal Oak Ent. Inc., Ellsinore Mo., Ellsinore, Carter	3,294,720	0	0	0	0	0	3,294,720	0	0
Craig Ind., Summersville, Shannon	2,753,280	0	0	0	0	0	2,753,280	0	0
Ford Motor Co., Kansas City Assembly Plant, Claycomo, Clay	2,327,243	0	0	0	0	0	2,327,243	40,960	18,065
Ford Motor Co. St. Louis Assembly, Hazelwood, St Louis	1,518,402	0	0	0	0	0	1,518,402	1,200	20,969
Dow Chemical Co. Riverside Site, Pevely, Jefferson	1,406,901	0	0	0	0	0	1,406,901	0	0
ICI Explosives USA Inc., Joplin, Jasper	425,110	595,700	0	0	0	255	1,021,065	0	13,000
Missouri Chemical Works, Louisiana, Pike	976,854	0	0	0	0	0	976,854	0	0
Dyno Nobel Inc. Lomo Plant, Louisiana, Pike	194,700	762,000	0	0	0	0	956,700	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Viburnum Mines/Mill, Viburnum, Iron	57,045	11,700	0	0	0	15,487,593	15,556,338	0	0
Buick Mine/Mill, Boss, Iron	41,427	9,498	0	0	0	10,383,782	10,434,707	0	0
Sikeston Power Station, Sikeston, Scott	340,982	0	0	0	0	7,036,958	7,377,940	0	0
Westfork Mine/Mill, Bunker, Reynolds	924	1,250	0	0	0	6,806,016	6,808,190	0	0
Fletcher Mine/Mill, Bunker, Reynolds	23,698	1,750	0	0	0	6,321,354	6,346,802	0	0
Labadie Power Station, Labadie, Franklin	1,966,147	39,607	0	0	0	3,449,000	5,454,754	0	0
Sioux Power Plant, West Alton, St Charles	3,351,324	9,035	0	0	0	1,314,000	4,674,359	0	0
Brushy Creek Mine/Mill, Bunker, Reynolds	12,799	4,548	0	0	0	4,459,079	4,476,426	0	0
Meramec Plant, Saint Louis, St Louis	3,535,486	11,490	0	0	0	346,000	3,892,976	0	0
Sweetwater Mine/Mill, Ellington, Reynolds	3,777	915	0	0	0	3,654,708	3,659,400	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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MISSOURI

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Doe Run Co. Herculaneum Smelter, Herculaneum, Jefferson	40,901,194	0	0	0	0	0	9,849,759	50,750,953	25,985
Doe Run Co. Glover Smelter, Annapolis, Iron	58,598,682	3	0	0	5,905	328	9,350,167	67,955,085	0
Royal Oak Ent. Inc., Ellsinore Mo., Ellsinore, Carter	0	0	0	0	0	0	3,294,720	3,294,720	1
Craig Ind., Summersville, Shannon	0	0	0	0	0	0	2,753,280	2,753,280	1
Ford Motor Co., Kansas City Assembly Plant, Claycomo, Clay	0	1,012,790	0	234,790	857,900	72,690	2,417,639	4,595,809	0
Ford Motor Co. St. Louis Assembly, Hazelwood, St Louis	0	1,052,402	0	0	145,826	36,311	1,538,675	2,773,214	0
Dow Chemical Co. Riverside Site, Pevely, Jefferson	0	0	0	31,700	0	0	1,416,901	1,448,601	0
ICI Explosives USA Inc., Joplin, Jasper	17,100,000	0	0	0	0	197,100	1,015,002	18,312,102	0
Missouri Chemical Works, Louisiana, Pike	0	11,000	359,500	0	3,950,000	1,000	976,861	5,298,361	610
Dyno Nobel Inc. Lomo Plant, Louisiana, Pike	477,400	8,600	0	0	320,000	0	958,000	1,764,000	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Viburnum Mines/Mill, Viburnum, Iron	0	0	0	0	0	0	15,556,423	15,556,423	0
Buick Mine/Mill, Boss, Iron	0	0	0	0	0	0	10,434,678	10,434,678	0
Sikeston Power Station, Sikeston, Scott	0	0	0	0	0	0	7,377,942	7,377,942	0
Westfork Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	6,808,171	6,808,171	0
Fletcher Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	6,345,938	6,345,938	0
Labadie Power Station, Labadie, Franklin	0	0	0	0	2,160,000	0	5,415,000	7,575,000	0
Sioux Power Plant, West Alton, St Charles	0	0	0	0	892,000	0	4,669,000	5,561,000	0
Brushy Creek Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	4,476,016	4,476,016	0
Meramec Plant, Saint Louis, St Louis	0	0	0	0	512,000	0	3,890,000	4,402,000	0
Sweetwater Mine/Mill, Ellington, Reynolds	0	0	0	0	0	0	3,659,237	3,659,237	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.